ViewZ

# 23-INCH TFT-LCD
# PUBLIC VIEW MONITOR

## INSTRUCTION MANUAL

Please read this manual thoroughly before use, and keep it handy for future reference.

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This Monitor was
Manufactured by ISO 9001
Certified Factory

# Important Safety Instruction

1. Read these instructions.
2. Keep these Instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers,stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.
   Apolarized plug has two blades with one wider than the other.
   Agrounding type plug has two blades and a third grounding prong.
   The wide blade or the third prong are provided for your safety.
   If the provided plug does not fit into your outlet, consult an electrician for replacement of the bsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachment/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.

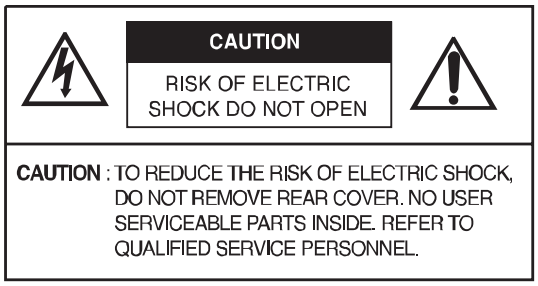
# SAFETY INSTRUCTION

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed no the apparatus.

14 Minimum distances(e.g. 10cm) around the apparatus for sufficient ventilation.

“WARNING – To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture.”

“The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.”


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated : dangerous voltage with in the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

# CAUTIONS

## CAUTION

*The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.*

## ATTENTION

*Le cordon d`alimentation est utillsé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d`accès*

**CAUTION TO SERVICE PERSONNEL**

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

**EMISSION CHARACTERISTICS TESTED BY SEMKO**

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR II)

▶ **NEVER REMOVE THE BACK COVER**

Removal of the back cover should be carried out only by qualified personnel.

▶ **DO NOT USE IN HOSTILE ENVIRONMENTS**

To prevent shock or fire hazard, do not expose the unit to rain or moisture.

This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust of corrosive gases.

▶ **KEEP IN A WELL VENTILATED PLACE**

Ventilation holes are provided on the cabinet to prevent the temperature from rising.

Do not cover the unit or place anything on the top of unit.

▶ **AVOID HEAT**

Avoid placing the unit in direct sunshine or near a heating appliance.

▶ **TO ELIMINATE EYE FATIGUE**

Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.

▶ **BE CAREFUL OF HEAVY OBJECT**

Neither the monitor itself nor any other heavy object should rest on the power cord.

Damage to a power cord can cause fire or electrical shock.

# FCC RF INTERFERENCE STATEMENT

**NOTE**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

**▶ DOC COMPLIANCE NOTICE**

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

# WIRING

## WIRING (only 24V~ inputs)

1. On the back of the monitor, loosen the thumb screws and lower the access panel.
2. Attach the leads from the power supply (not supplied) to the left and right connectors.

WARNING: Do not connect a ground to the center post.

3. When finished, secure the access panel.

   Table A shows the recommended maximum wiring distances (transformer to load), and are calculated with a 10-percent voltage drop.

   (10 percent is generally the maximum allowable voltage drop for AC-powered devices.)

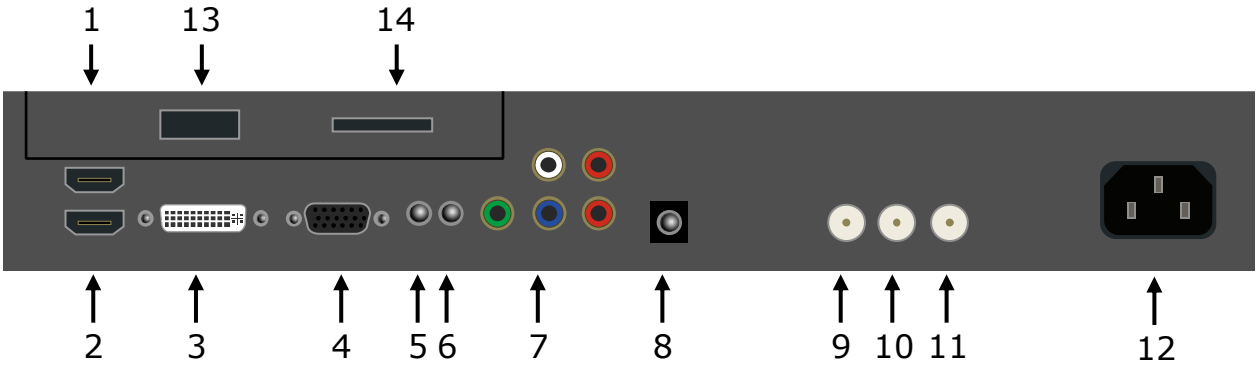
**Recommended Wiring Distances**

| Inch | Wire | | |
|---|---|---|---|
| | 18AWG | 16AWG | 14AWG |
| 23” | 150 ft (45 m) | 240 ft (73 m) | 300 ft (91 m) |

# CONNECTING WITH EXTERNAL EQUIPMENT

## A. TOP PANEL CONTROL

### A-1. AC IN Type




1. HDMI2 IN
2. HDMI1 IN
3. DVI IN
4. VGA (D-SUB) IN
5. PC STEREO IN
6. AUDIO OUT (Speaker)
7. COMPONENT Y,Pb,Pr & SOUND L,R IN
8. DC 12V IN
9. CAMERA OUT
10. AV2 (VIDEO2) IN
11. AV2 (VIDEO2) OUT
12. AC IN
13. USB 2.0 (Optional)
14. SD CARD READER (Optional)

### A-2. AC 24V IN Type

1. AC 24V IN
2. HDMI1 IN
3. DVI IN
4. VGA (D-SUB) IN
5. PC STEREO IN
6. AUDIO OUT (Speaker)
7. COMPONENT Y,Pb,Pr & SOUND L,R IN
8. DC 12V IN
9. CAMERA OUT
10. AV2 (VIDEO2) IN
11. AV2 (VIDEO2) OUT
12. AC IN
13. USB 2.0 (Optional)
14. SD CARD READER (Optional)

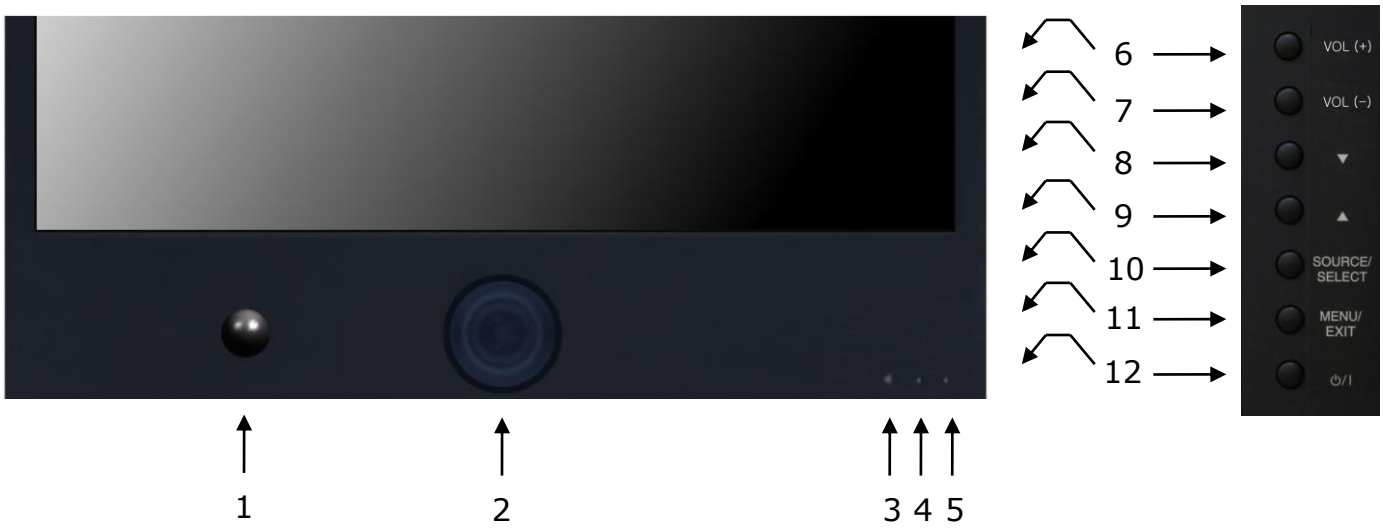
# REMOTE FUNCTIONS

## B. REMOTE CONTROLLER(Optional)

**1. POWER(⏻)**
Turns the power ON or OFF. There will be a few seconds delay before the display appears.
**2. SOURCE**
Selects an input source.
**3. AUTO**
Auto geometry adjustment in the RGB PC source.
**4. HOLD**
Stops the Motion Detection & Auto switching functions.
**5. MUTE**
Mutes the sound.
**6. MENU**
Activates and exits the On Screen Display.
**7. EXIT**
Exits the On Screen Display.
**8. VOL(◀ & ▶)**
Increases or decreases the level of audio volume.
**9. UP/DOWN**
Moves upwards or downwards in the OSD menu.
**10. ENTER**
Enters an OSD submenu or accepts your selection.
**11. INFO**
Displays the information about input source.
**12. STILL**
Pauses the picture.
**13. PIP (Picture In Picture)**
Activates the PIP mode.
**14. P.INPUT**
Changes the source of sub-picture in the PIP mode.
**15. P.POS**
Changes the position of sub-picture in the PIP mode.
**16. P.SIZE**
Changes the sizes of sub and main pictures in the PIP mode.
**17. SWAP**
Alternates between sub and main pictures in the PIP mode.
**18. ARC (Aspect Ratio Control)**
Selects a screen ratio.
**19. APC (Auto Picture Control)**
Selects a picture mode.
**20. ACC (Auto Color Control)**
Selects a color mode.
**21. S.SET**
Selects the source of sound between main and sub pictures in the PIP mode.
**22. PC**
Selects a PC mode(PC, DVI & HDMI).
**23. AV**
Selects an AV mode(AV2 & S-VIDEO).
**24. COMP**
Selects the Component mode.

# CONTROLS AND FUNCTIONS

## C. FRONT & BACK KEY CONTROL




**1. PIR(Passive Infra-Red) Sensor**

Built-in PIR(Passive Infra-Red) Sensor for the Motion Detection function.

**2. BUILT-IN CAMERA**

Image of this camera is shown by HDMI.

**3. IR Sensor**

Remote controller sensor.

**4. POWER LED**

The power LED lights with green when the power is turned ON.

The power is turned off by pressing the power switch again and the power LED goes to off.

**5. RECORDING INDICATOR LED**

This LED indicates the recording status by blinking the LED light.

User can choose the LED colors among these. (Red, Blue, Purple)

**6 & 7. VOL(+) & VOL(-)**

Adjust the volume and menu settings.

**8 & 9. ▲ & ▼**

These buttons allow user to enter the sub-menu of the activated function.

The up(▲) button is HOLD function and stop the Motion Detection & Auto switching functions.

**10. SOURCE/SELECT**

Selects an input source.

Enters a submenu or accepts your selection in the OSD menu.

**11. MENU/EXIT**

Activates and exits the On Screen Display.

This button can also be used to move previous menu or status.

**12. POWER ON/OFF(⏻/ I )**

Turns the power ON or OFF. There will be a few seconds delay before the display appears.

# CONTROLS AND FUNCTIONS

## OSD MENU DESCRIPTION

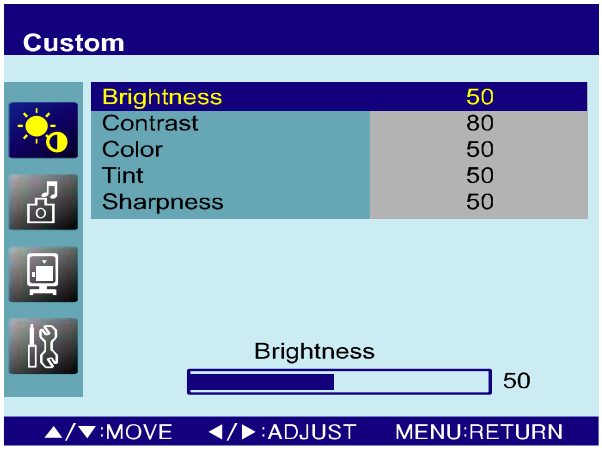
All picture, sound settings and setup for the monitor can be adjusted in the OSD menu.

(**O**n **S**creen **D**isplay)

To adjust the OSD screen:

1. Press the **Menu** button to enter the OSD menu.
2. Press the ▲/▼ buttons to select the desired option. The selected option is highlighted.
3. Press the ▶ button to enter the submenu for adjusting items.
4. Change the value you wish to adjust by using the ▲/▼ buttons.
5. Press the ◀ button to exit the submenu for adjusting items.
6. Press the **Menu** button to exit the OSD menu.

## A. Custom

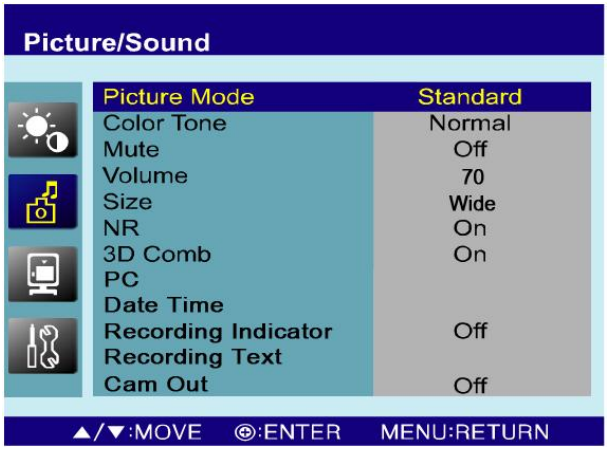



| Option | Function | Value |
|---|---|---|
| Brightness | Adjusts brightness of the screen. | 0 ~ 100 |
| Contrast | Adjusts intensity of the image. | 0 ~ 100 |
| Color [1)] | Adjusts color of the picture. | 0 ~ 100 |
| Tint [1) 2)] | Adjusts tint of the picture. | 0 ~ 100 |
| Sharpness [1)] | Adjusts sharpness of the picture. | 0 ~ 100 |

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in PAL system.

## B. Picture/Sound




| Option | Function | Value |
|---|---|---|
| Picture Mode | Sets picture mode. | See table below |
| Color Tone | Sets color tone. | See table below |
| Mute | Mutes speaker sound. | Off or On |
| Volume | Adjust the level of audio volume. | 0 ~ 100 |
| Size | Display picture size. | See table below |
| NR [1)] | Reduces noise of the picture. | On or Off |
| 3D Comb [2)] | Activates the 3D comb filter. | On or Off |
| PC [3)] | See table below. | See table below |
| Date Time | Sets the date time on the screen. | See table below |
| Recording Indicator | Sets the light color of recoding LED | Off, Red, Blue, Purple |
| Recording Text | Sets the recording indication text. | See table below |
| Cam out | CVBS out is possible to watch Cam out through the CAMERA OUT Port when power off. (Operating is On.) | On or Off<br><br>(Default is Off.) |

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

2) Unavailable in S-Video, RGB PC, DVI, HDMI1 and HDMI2.

3) Only available in RGB PC.

**Picture Mode**

| | |
|---|---|
| Custom | Applies user selected values.(Brightness, Contrast, Color, Tint and Sharpness) |
| Dynamic | Provides enhanced contrast and sharpness. |
| Standard | Provides standard contrast and sharpness. |
| Movie | Is recommended for viewing film-based content. |
| Mild | Reduces contras and sharpness. |

**Color Tone**

| | |
|---|---|
| Cool | Gives the white color a bluish tint. |
| Normal | Gives the white color a neutral tint. |
| Warm | Gives the white color a reddish tint. |
| User | To manually adjust the color tones(Red, Green, and Blue). |

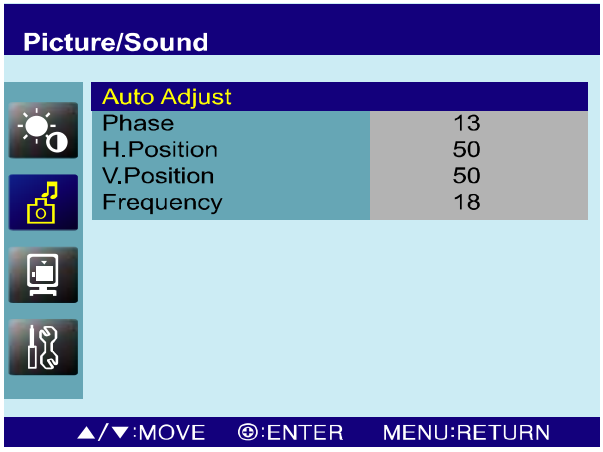
**Size**

| | |
|---|---|
| 4:3 | Sets the image size to 4:3 |
| Panorama [1)] | Sets the image to panorama |
| Zoom1 [1)] | Expands the image size about two times to upward and downward |
| Zoom2 [1)] | Expands the image size about one and half times to upward and downward |
| Wide | Sets the image size to wide |
| Under [2)] | Adjusts the image size to display resolution without overscan |
| 1:1 [1)] | Adjusts the image size to input resolution with overscan |

1) Unavailable in RGB PC, DVI, HDMI1 and HDMI2.

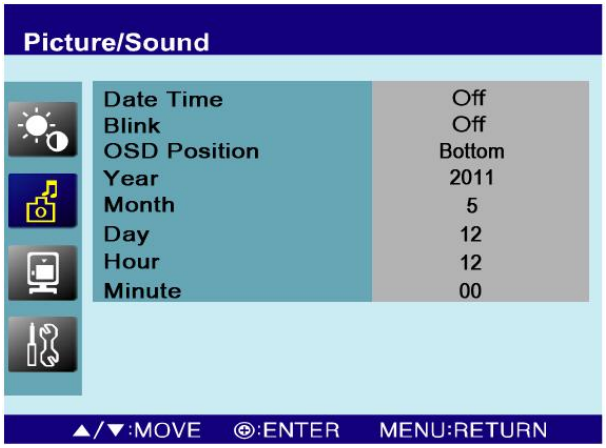
2) Unavailable in RGB PC.

**PC**




| Option | Function | Value |
|---|---|---|
| Auto Adjust | Auto geometry adjustment. | |
| Phase | Adjusts the number of horizontal picture elements. | 0 ~ 100 |
| H-Position | Adjusts the horizontally picture position. | 0 ~ 100 |
| V-Position | Adjusts the vertically picture position. | 0 ~ 100 |
| Frequency | Adjusts the vertical noise of screen image. | 0 ~ 100 |

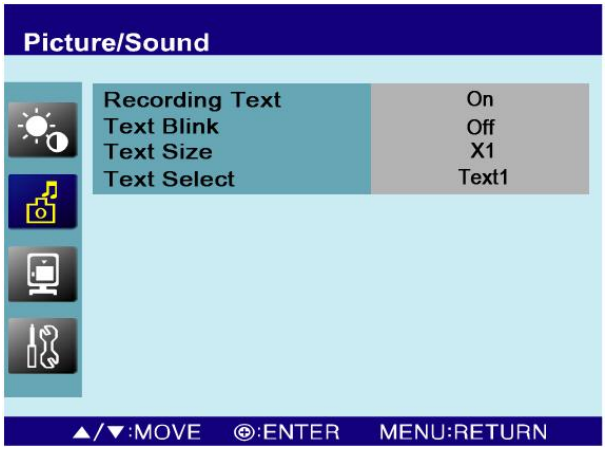
## Date Time




| Option | Function | Value |
|---|---|---|
| Date Time | Activates the feature of Date Time. | Off or On |
| Blink | This function is for blinking Date & Time texts. | Off or On |
| OSD Position | Selects the location of Date Time text. | Top, Bottom |
| Year* | Selects the wanted year. | 2000~2100 |
| Month* | Selects the wanted month. | 1~12 |
| Day* | Selects the wanted day. | 1~31 |
| Hour* | Selects the wanted hour. | 0~23 |
| Minute* | Selects the wanted minute. | 0~59 |

* User can set the wanted time (Year, Month, Day, Hour, Minute) by using VOL(◀/▶) key.

## Recording Text

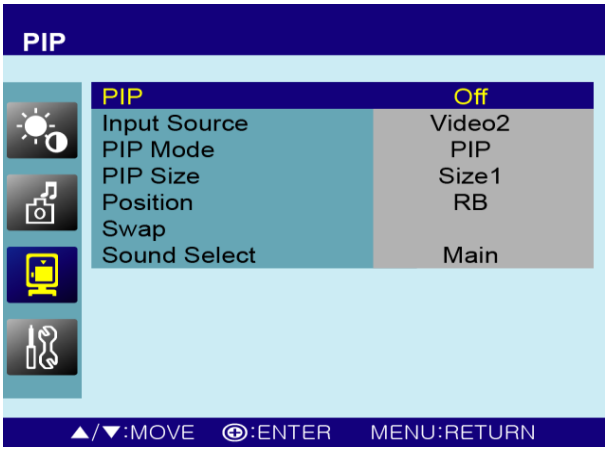



| Option | Function | Value |
|---|---|---|
| Recording Text | Activates the feature of Recording Text. | Off or On |
| Text Blink | This function is for blinking Recording text. | Off or On |
| Text Size | Selects the size of Recording text. | X1, X2, X3 |
| Text Select | Selects the wanted phrases. | Text1, Text2, Text3[1)] |

1) Text phrases

- Text1: Recording
- Text2: Recording in Progress
- Text3: Surveillance in Progress

## C. PIP

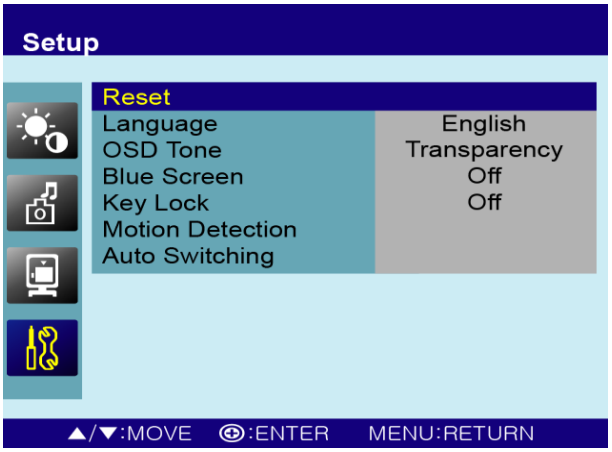



| Option | Function | Value |
|---|---|---|
| PIP | Activates the PIP feature. | Off or On |
| Input Source | Selects the input source for the PIP area. | See table below |
| PIP Mode | Enables 3 screen size.4:3 side by corner, 4:3 side by 4: 3, and full screen side by side. | PIP, PBP1 or PBP2 |
| PIP Size | Selects the size of PIP screen. | Size1, Size2 or Size3 |
| Position | Selects the position of PIP screen. **R**ight of **B**ottom, **L**eft of **B**ottom, **L**eft of **T**op and **R**ight of **T**op. | RB, LB, LT or RT |
| Swap | Alternates between the main and sub picture | |
| Sound Select | Selects the sound source from either the Main or PIP | Main or Sub |

**Input Source**

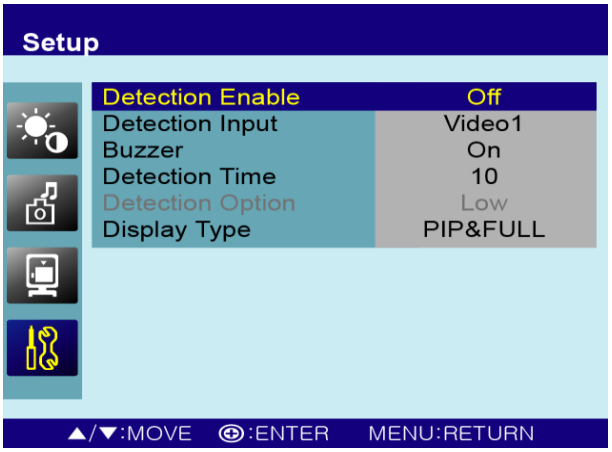
| | Main | Sub |
|---|---|---|
| Available combination | AV2, S-Video and C/R | AV2, S-Video and C/R |
| | AV2, S-Video and C/R | RGB PC, DVI, HDMI1 or HDMI2 |
| | RGB PC, DVI, HDMI1 or HDMI2 | AV2, S-Video and C/R |
| Unavailable combination | RGB PC, DVI, HDMI1 or HDMI2 | RGB PC, DVI, HDMI1 or HDMI2 |

## D. Setup



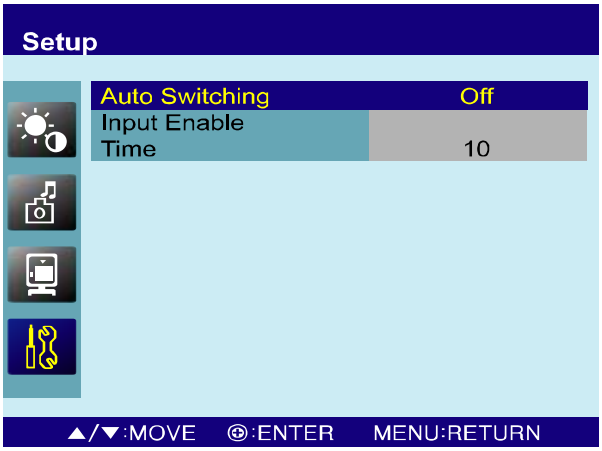

| Option | Function | Value |
|---|---|---|
| Reset | Resets the monitor settings to their factory default. | |
| Language | Sets the language of the OSD menu. | English, French, Deutsch, Italian, Spanish, Portuguese or Nederland |
| OSD Tone | Changes background of monitor menus. (e.g. input source & information) | Transparency or On |
| Blue Screen | Displays a blue screen if the monitor receives no signal. | Off or On |
| Key Lock | Locks all buttons of the monitor.<br>**Note**: Use remote controller to unlock. | Off or On |
| Motion Detection | See table below | |
| Auto Switching | See table below | |

**Motion Detection (Built-in PIR sensor; Passive Infra-Red)**



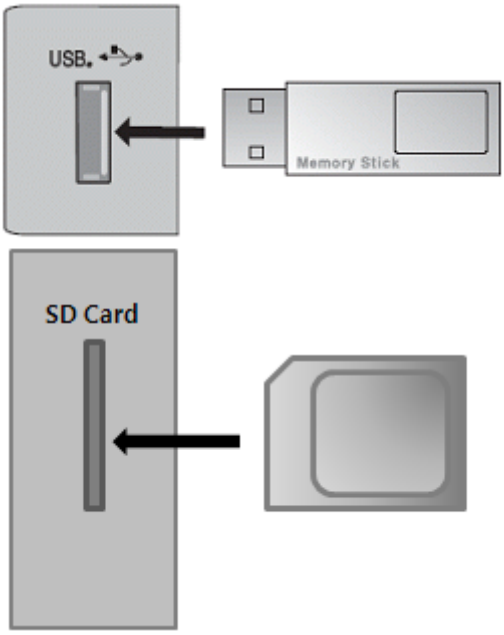

| Option | Function | Value |
|---|---|---|
| Detection Enable | Activates the Motion Detection feature. | Off or On |
| Detection Input | Selects the input source for the Motion Detection. | AV2, S-Video, RGB PC, DVI, HDMI1, HDMI2 or C/R |
| Buzzer | Activates an audible signal when the monitor receives a motion detection signal. | On or Off |
| Detection Time | Selects the amount of time, in seconds, that the monitor displays the motion detection input image. | 3 ~ 100 |
| Detection Option | Inactivated. | |
| Display Type | Selects the mode in which the monitor displays the motion detection input. The monitor takes one of the following actions:<br>- PIP & FULL: Displays the motion detection input in the PIP of the current video input source.<br>**Note**: The main video source must support the motion detection input source as a PIP option. See section "**Input Source**" in "**C. PIP**".<br>- FULL: Switches the display to show the motion detection input in the full screen. | PIP & FULL or FULL |

### Auto Switching




| Option | Function | Value |
|---|---|---|
| Auto Switching | Activates the Auto Switching feature. | Off or On |
| Input Enable | Opens another menu and you can select the input sources to include in the Auto Switching cycle. | AV2, S-Video, RGB PC, DVI, HDMI1, HDMI2 and C/R |
| Time | Selects the amount of time, in seconds, that the monitor displays each selected input source. | 3 ~ 100 |

## Menu of the M/P (Media Player)




**• Connect USB & SD card devices**

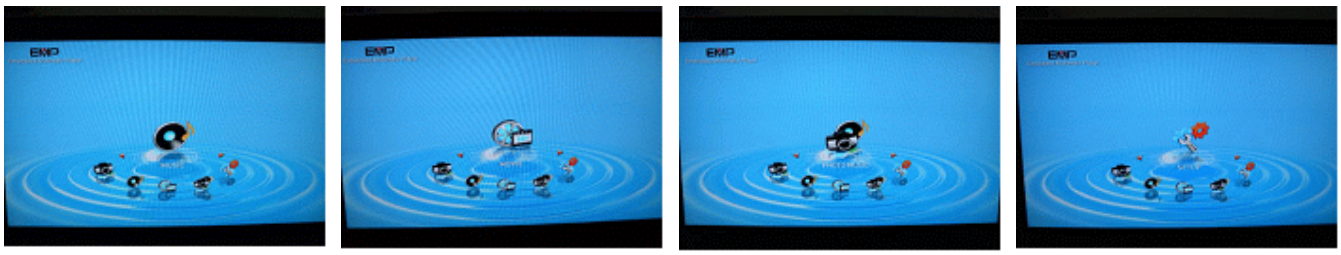
1. Connect USB & SD card devices to USB slot which are on the slide of the monitor set.

**• Removing the USB & SD card devices from Monitor**

1. Return to main menu and press ESC.

2. Remove the USB & SD card devices from Monitor.

### - Entering Card Reader, displaying main menu.



[MUSIC] [MOVIE] [MUSIC PHOTO] [SETUP]

| Option | Function |
|---|---|
| PHOTO | Displaying photo and slideshow. |
| MUSIC | Playing music in the USB device. |
| MOVIE | Playing movie in the USB device |
| MUSIC PHOTO | Displaying photo and slideshow with playing music. |
| SETUP | Select subtitle language and photo slideshow effect, time. |

# CONTROLS AND FUNCTIONS (Optional)

## A. PHOTO

### JPEG File Viewing Options

- When you select Photo in entry menu,

1. Press the USB button and then use ◀/▶ button to select the Photo.
2. Press the **SEL** button.
3. Press the ▲/▼ button to select photo file.
4. Press the **SEL** button for 1 picture display for slideshow.
5. Press exit or press the **ESC** button to return to the USB menu.

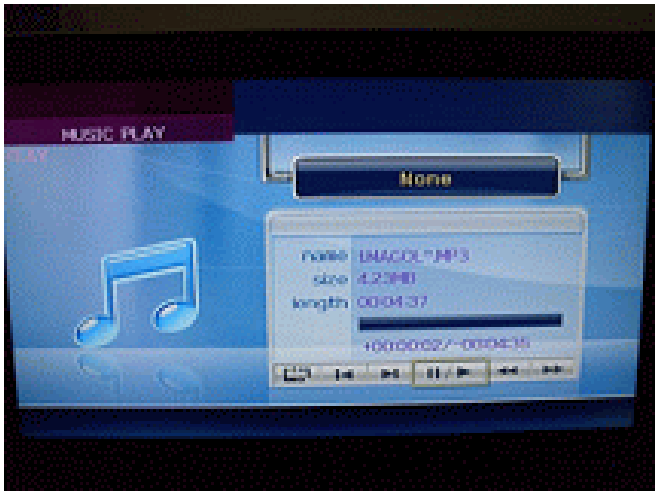
### Slideshow

1. Press ◀/▶ button to select the Photo.
2. You can choose the slide show effect, frequency and play mode in the USB Setup.
3. Press the **SEL** button to pause the current image.
5. Press exit or press the **ESC** button to return to the USB menu.

**Using the remote control**

| | |
|---|---|
| SEL | Starting photo slideshow displaying |
| PLAY/PAUSE | PLAY/PAUSE functions use **SEL** button in slideshow displaying |
| ESC | Stop slideshow and return to photo file list menu |

## B. MUSIC



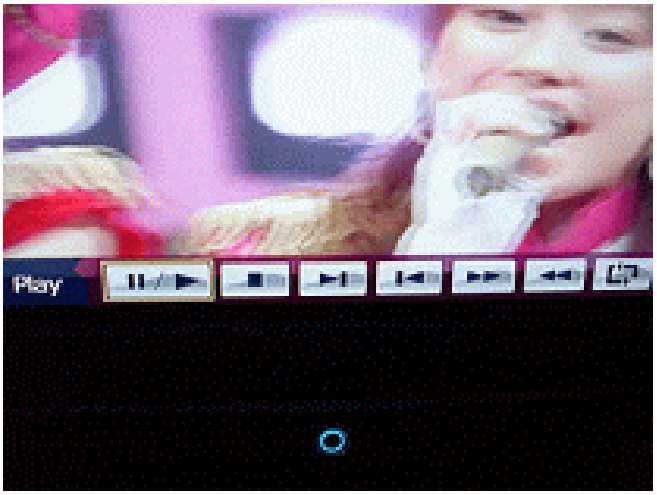

- Purchased MP3/music files may contain copyright restrictions.

1. Press ◀/▶ button to select the Music.
2. Press the **SEL** button.
3. Press the ▲/▼ button to select desired music file.
4. Press the **SEL** button. Then the music starts.
5. Press exit or press the **ESC** button to return to the USB menu.

**Using the remote control**

| | |
|---|---|
| SEL | Selected music playing |
| PLAY/PAUSE | PLAY/PAUSE functions use **SEL** button |
| ESC | Stop playing music and return the music file list |

## C. MOVIE




**- Select the Movie**

1. Press ◀/▶ button to select the Movie
2. Press the **SEL** button.
3. Press the ▲/▼ button to select desired movie file.
4. Press the **SEL** button. Then the movie starts.
5. Press exit or press the **ESC** button to return to the USB menu.

**Using the remote control**

| | |
|---|---|
| SEL | Playing selected movie file |
| PLAY/PAUSE | PLAY/PAUSE functions use **SEL** button |
| ESC | Stop playing movie and return to movie file list |

## D. PHOTO MUSIC

**-Playing slideshow with music.**

1. Press the USB button and then use ◀/▶ button to select the **PHOTO MUSIC**.
2. Press the **SEL** button.
3. Press the ▲/▼ button to select photo file.
4. Press the **SEL** button for picture display for slideshow.
5. Moved to music file list for music playing.
6. Press the **SEL** button for playing music with photo slide show.
7. Press exit or press the **ESC** button to return to the USB menu.

**Using the remote control**

| | |
|---|---|
| OK | Select photo and music file |
| PLAY/PAUSE | PLAY/PAUSE functions use **SEL** button in Music playing |
| ESC | Stop playing slideshow with music and return to movie file list |

## E. PHOTO Thumbnail mode

**- Thumbnail mode in photo.**

**- Press ▶ button in Photo File list or ACT button in main menu**

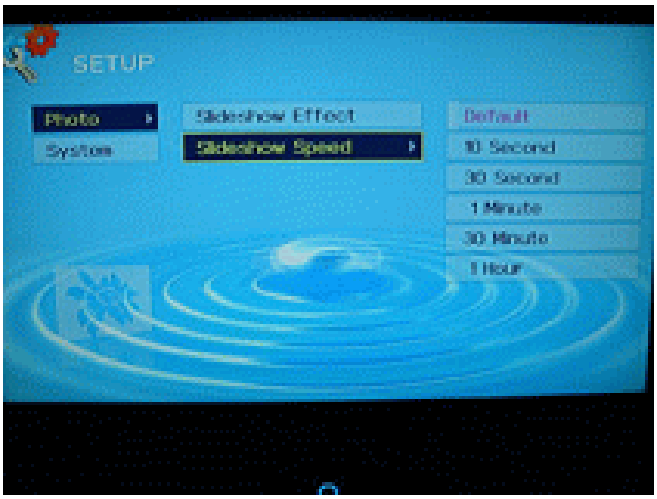
1. Press ▲/▼/◀/▶ button to select desired photo file.
2. Press **SEL** button to start Slideshow
3. Press exit or press the ESC button to return to the USB menu.

**Using the remote control**

| | |
|---|---|
| SEL | Select desired photo file for slideshow playing |
| PLAY/PAUSE | PLAY/PAUSE functions use **SEL** button in photo playing |
| ESC | Stop Thumbnail mode and return to file list |

## F. SETUP

### 1. SETUP- PHOTO




**Select Slideshow Effect**

-The picture display effect for the slide show.

1. Press ◀/▶ button to select the Setup.
2. Press the **SEL** button enter the Setup menu.
3. Press the ▶ and then use ▲/▼ button to select **Slideshow EFFECT**.
4. Press the ▶ and then use ▲/▼ button to select the desired Effect.
5. Press exit or press the **ESC** button to return to the USB menu.

**Select Slideshow Speed**

-The picture display interval for the slide show.

1. Press ◀/▶ button to select the Setup.
2. Press the **SEL** button to enter the Setup menu.
3. Press the ▲/▼ button to select the PHOTO SETUP.
4. Press the ▶ and then use ▲/▼ button to select..
5. Press the ▶ and then use ▲/▼ button to select the Speed.
6. Press exit or press the **ESC** button to return to the USB menu.

## 2. SETUP-SYSTEM

**Select SUBTITLE LANG.**

- The menus can be shown on the screen in the selected language.

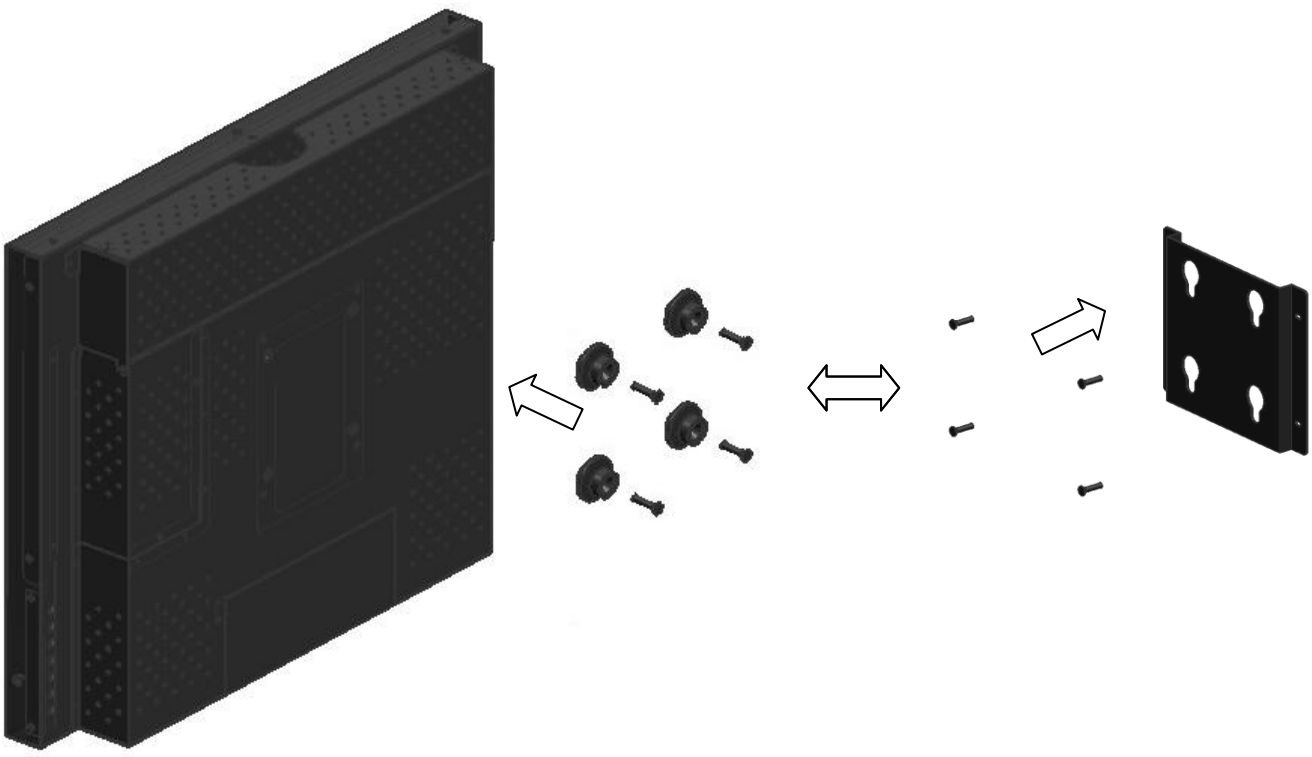
First select your language.

1. Press ◀/▶ button to select the Setup.
2. Press the **SEL** button to enter the Setup menu.
3. Press the ▲/▼ button to select the SYSTEM SETUP.
4. Press the ▶ and then use ▲/▼ button to select **SUBTITLE LANGUAGE.**
5. Press the ▶ and then use ▲/▼button to select the desired language.
6. Press exit or press the **ESC** button to return to the USB menu.

# MOUNTING GUIDE

**Wall mounting (Optional)**

The LCD monitor is suitable for wall mounting by using the VESA 100 standard wall mount (not included in the delivery).



**※ Attention!**

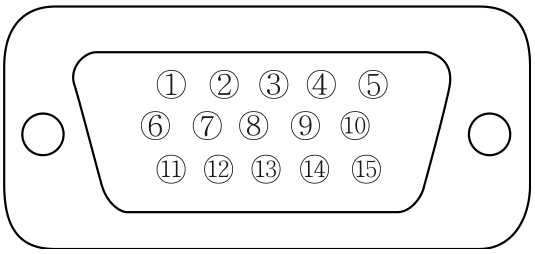
You must use four M4x10 screws to assemble this monitor and the wall mount bracket.

# D-SUB CONNECTOR PIN ASSIGNMENTS

## ▶ PIN ASSIGNMENTS

| | | | |
|---|---|---|---|
| Pin 1 | RED VIDEO | 9 | |
| 2 | GREEN VIDEO | 10 | SIGNAL CABLE DETECT |
| 3 | BLUE VIDEO | 11 | GROUND |
| 4 | GROUND | 12 | SDA(for DDC) |
| 5 | GROUND | 13 | H-SYNC.(or H+V SYNC.) |
| 6 | RED GROUND | 14 | V-SYNC. |
| 7 | GREEN GROUND | 15 | SCL(for DDC) |
| 8 | BLUE GROUND | | |

**D-SUB**




## ▶ ACCESSORIES

1. Power cord. (AC 110V only.)
2. User's manual.
3. PC cable.
4. Stereo cable. (Optional)
5. Remote controller. (Optional)
6. Batteries. (Optional)
7. Wall mount. (Optional)

# POWER MANAGEMENT

**POWER CONSUMPTION**

| MODE | POWER CONSUMPTION |
|---|---|
| **ON** | < 35W |
| **POWER OFF** | < 1W |

**LED INDICATOR**

The power management feature of the monitor is comprised of two stages: ON(GREEN) and POWER OFF(RED).

| MODE | LED COLOR | MONITOR OPERATION |
|---|---|---|
| **ON** | GREEN | Normal Operation |
| **POWER OFF** | RED | Not Operation |

# SPECIFICATIONS

## 1. Monitor Specification

| | | 23” |
|---|---|---|
| LCD-Type | | 23″ Diagonal AM-TFT(Active-Matrix) |
| | | Pixel pitch(mm) : 0.2655(H) x 0.2655(V) |
| | | BRIGHTNESS: 250cd/㎡(Typical) |
| | | CONTRAST RATIO: 1000:1(Typical) |
| | | VIEWING ANGLE: 160˚/160˚(H/V) |
| | | RESPONSE TIME: 5msec(Typical) |
| RESOLUTION (H x V) | | 1920X1080 @60Hz |
| FREQUENCY | | HORIZONTAL: 31~80KHz,<br>VERTICAL: 56~75Hz |
| INPUT SIGNAL | | VIDEO(1ch input 1.0Vp-p, 75Ω terminated, loop-through out) |
| | | S-VIDEO(1ch input (Y/C)) |
| | | DVI D(Digital Video Interface) |
| | | HDMI1, HDMI2 (High Definition Multimedia Interface) |
| | | PC RGB |
| | | AV(composite) Sound In/Out |
| | | PC Stereo In |
| | | Audio Out |
| | | Card Reader (Optional) |
| ACTIVE DISPLAY AREA (H x V) | | 509.76 mm X 286.74 mm (20.07” X 11.29”) |
| PACKING DIMENSIONS (W x D x H) | | 650 mm X 205 mm X 545 mm (25.59” X 8.07” X 21.45”) |
| WEIGHT | AC IN | Net: 8.8kg (19.40 lbs) / Gross: 10.5kg (23.15 lbs) |
| | AC 24 IN | Net: 8.3kg (18.30 lbs) / Gross: 10.5kg (23.15 lbs) |
| ELECTRICAL RATINGS | AC IN | 100-240V~, 50/60Hz (auto switching)<br>(Built-in Adaptor Output: 12V / 5.83A) |
| | AC 24 IN | AC 24V (50/60Hz) |

▶▶ **NOTE:** Technical specifications are subject to change without notice.

# SPECIFICATIONS

## 2. Camera Specification

| ITEM | | Built-in CAMERA |
|---|---|---|
| **Sensor Type** | | 1/3” Panasonic 1.3M Progressive CMOS |
| **Total Number of Pixels** | | 1376(H) X 1070(V) = 1,472,320 (pixel) |
| **Number of Active Pixels** | | 1280(H) X 1024(V) = 1,310,720 (pixel) |
| **Min. Illumination** | | 0.5 Lux@50IRE, F1.2 |
| **Lens** | **Mount** | D-Mount |
| | **Lens** | DC Iris, 2.8mm~10mm, F1.2 |
| **Output** | **Resolution** | 720P 60fps |
| | **Standard HD-SDI** | 1,485 Gbit HD-SDI(SMPTE 292M) |
| | **CVBS OUT** | 1.0 Vp-p Composite (75Ω) ➔ (Fix Camera out of a SET) |
| **Video Control** | **Control Method** | OSD |
| | **AGC** | LOW, MIDDLE, HIGH |
| | **DWDR** | OFF, LOW, MIDDLE, HIGH |
| | **2D, 3D DNR** | OFF, ON (Level Adjustable) |
| | **SENS_UP** | OFF, X2~X30, AUTO |
| | **White Balance** | ATW, AWC->SET, INDOOR, OUTDOOR, MANUAL |
| | **Electric Shutter** | AUTO(NTSC: 1/60~1/100,000 /PAL:1/50~1/100,000) |
| | **Day & Night** | AUTO, COLOR, B/W, EXT |
| | **Motion** | OFF / ON (3-AREA) |
| | **Privacy** | OFF / ON (8 Zones) |
| **Power Consumption** | | DC 12V (±10%), Max, 280mA |
| **Operating Temperature** | | -10℃~55℃ |
| **Storage Temperature** | | -20℃~85℃ |

▶▶ **NOTE:** Technical specifications are subject to change without notice.

# SPECIFICATIONS

## 3. PIR sensor Specification

| ITEM | | Built-in PIR sensor |
|---|---|---|
| Detection angle | | X-axis: 138°, Y-axis: 125° |
| Ratings (25[℃]) | Sensitive Area (mm) | 2 elements |
| | Spectral Response (㎛) | 5~14 |
| | Signal Output (mVp-p) | 20 |
| | Noise (mVp-p) | 0.4 |
| | Offset Voltage (V) | 0.1 |
| | Supply Voltage (V) | 2.2~15 |
| Operating Temp. (℃) | | 30~70 |

▶▶ **NOTE:** Technical specifications are subject to change without notice.

# SPECIFICATIONS

## 4. Card Reader Specification (Optional)

| ITEM | MEDIA SUPPOTING SPECIFICATION | | | | |
|---|---|---|---|---|---|
| | Category | Format | | Support | Remarks |
| | | Video | Audio | TECRONY | (Maximum bitrate, resolution) |
| Movie Specification | MPEG1 | MPEG1 | MP3, layer1,2 | YES | Over 10,240kbps,720x576 |
| | MPEG2 | MPEG2 | MPEG2 | NO | - |
| | MPEG4 | Divx3 | MP3 | YES | Over 10,240kbps,720x576 |
| | | | AC3 | YES | Over 10,240kbps,720x576 |
| | | Divx4 | MP3 | YES | Over 10,240kbps,720x576 |
| | | | AC3 | YES | Over 10,240kbps,720x576 |
| | | Divx5 | MP3 | YES | Over 10,240kbps,720x576 |
| | | | AC3 | YES | Over 10,240kbps,720x576 |
| | | Divx6 | MP3 | YES | Over 10,240kbps,720x576 |
| | | | AC3 | YES | Over 10,240kbps,720x576 |
| | | Xvid | MP3 | YES | Over 10,240kbps,720x576 |
| | | | AC3 | YES | Over 10,240kbps,720x576 |
| | MS-MPEG4 | V2 | MP3 | NO | - |
| | | V3 | MP3 | NO | |
| | WMV7 | WMV7 | WMV7 | NO | |
| | WMV8 | WMV8 | WMV8 | NO | |
| | WMV9 | WMV9 | WMV9 | NO | |
| | H.264 | | | NO | |
| | H.263 | | | NO | |
| | .mpg | MPEG1/2 | MP3, layer1,2 | YES | 1192kbps, 720x576 |
| | .3gp | H.263 | AMR | NO | |
| | | MPEG4 | AMR | NO | |
| | .mp4 | MPEG4 | AAC | NO | |

| | | | | | |
|---|---|---|---|---|---|
| **Extension** | .avi | MJEG | | | |
| | | DivX | MP3 | YES | Over 10,240kbps,720x576 |
| | | Xvid | MP3 | YES | Over 10,240kbps,720x576 |
| | | Lossless avi | | NO | |
| | .asf | | | NO | |
| **Subtitle** | *.smi, *.srt, *.sub (Micro DVD), *.ssa | | | | |



# TROUBLESHOOTING GUIDE

| TROUBLE | TROUBLESHOOTING TIP |
|---|---|
| **No image on display screen** | 1. Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip.<br>2. Power switch should be in the ON position and LED is lit.<br>3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels. |
| **"NO SIGNAL" message on screen** | 1. The signal cable should be completely connected to the video card/computer.<br>2. The video card should be completely seated in its slot and the computer is switched ON. |
| **Display image is not centered, too small or too large in PC mode** | Push the down key in front side or Auto key in remote controller. |
| **Vertical or Horizontal noise is present in the picture** | Adjust Clock and Phase in the OSD. |

# WEEE Symbols

**Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

MEMO

MEMO